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Patent Claims:

- 1. A method of estimating pitch in a speech signal, comprising the steps of:
 - sampling the speech signal to obtain a series of samples,
 - dividing the series of samples into segments, each segment having a fixed number of consecutive samples,
 - calculating for each segment a conformity function for the signal,
 - detecting peaks in the conformity function,

the method further comprising the steps of:

- providing an intermediate signal derived from the speech signal,
- converting said intermediate signal to a binary signal, said binary signal being set to logical "1" where the intermediate signal exceeds a pre-selected threshold and to logical "0" where the intermediate signal does not exceed the pre-selected threshold,
- calculating an autocorrelation of the binary signal, and

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- using distance between peaks in the autocorrelation of the binary signal as an estimate of the pitch.
- 5 2. A method according to claim 1, wherein the intermediate signal is provided by filtering the speech signal through a filter based on a set of filter parameters estimated by using linear predictive analysis (LPA).
 - 3. method according to claim 1, wherein intermediate signal is provided by calculating the autocorrelation of a signal derived from the speech signal by filtering the speech filter based set of filter through a on а estimated by of linear parameters means predictive analysis (LPA).
 - 4. A method according to claim 1, further comprising the step of:
 - selecting, if the peak corresponding to the distance between the peaks is represented by a number of samples, the sample having the maximum amplitude of said conformity function as the estimate of the pitch.

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- Use of the method according to claim 1 in a mobile telephone.
- 6. A device adapted to estimate pitch of a speech signal, comprising:
 - a sampler for sampling the speech signal to obtain a series of samples,
 - a divider for dividing the series of samples into segments, each segment having a fixed number of consecutive samples,
 - an autocorrelation calculation unit for calculating for each segment a conformity function for the signal, and
 - peak detector for detecting peaks in the conformity function, the device further comprising a programmed unit:
 - for providing an intermediate signal derived from the speech signal,
 - for converting said intermediate signal to a binary signal, said binary signal being set to logical "1" where the intermediate signal exceeds a pre-selected threshold and to logical "0" where the intermediate signal does not exceed the pre-selected threshold,
 - for calculating the autocorrelation of the binary signal, and

- for using distance between peaks in the autocorrelation of the binary signal as an estimate of the pitch.
- A device according to claim 6, which includes a 5 7. filter which is adapted provide to the intermediate signal by filtering the signal through the filter based on a filter parameters estimated by means of linear 10 predictive analysis (LFA).
 - 8. A device according to claim 6, including a filter which is adapted to provide the intermediate signal by calculating an autocorrelation of a signal derived from the speech signal by filtering the speech through the filter based on a set of filter parameters estimated by means of linear predictive analysis (LPA).

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9. A device according to claim 6, which is further adapted to select, if a peak corresponding to the distance between the peaks is represented by a number of samples, the sample having the maximum amplitude of said conformity function as the estimate of the pitch.

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- 10. A device according to claim 6, wherein the device is a mobile telephone.
- 11. A device according to claim 6, wherein the device is an integrated circuit.